

POPOV, A.N., kand.tehn.nauk; KARASEV, A.K., inzh.

Studying processes of guniting and the physical and mechanical  
indices of gunite. Nauch.dokl.vys.shkoly; stroi. no.2:201-209  
'58. (MIRA 12:1)

(Gunite)

LITVER, S.L.,kand.tekhn.nauk; POPOV, A.N.,kand.tekhn.nauk

Investigation of stressing cements. Trudy MIZH no.3:51-92  
'58. (MIRA 12:1)  
(Prestressed concrete) (Cement--Testing)

POPGV, A.N.,kand.tekhn.nauk; LITVER, S.L.,kand.tekhn.nauk

Technology of producing and testing pressure pipes made of self-stressing reinforced concrete. Trudy MIZH no.3:140-162 '58.  
(MIRA 12:1)  
(Pipe, Concrete--Testing)

MURASHEV, V.A., prof., doktor tekhn.nauk; MIRONOV, S.A., prof., doktor tekhn.nauk; ALEKSANDROVSKIY, S.V., kand.tekhn.nauk; TAL', K.E., kand.tekhn.nauk; DMITRIYEV, S.A., kand.tekhn.nauk; MULIN, N.M., kand.tekhn.nauk; SIGALOV, E.Ye., kand.tekhn.nauk; NEMIROVSKIY, Ya.M., kand.tekhn.nauk; TABENKIN, F.L., inzh. [deceased]; KALATUROV, B.A., kand.tekhn.nauk; BRAJEE, Z.I., inzh.; KRYLOV, S.M., kand.tekhn.nauk; FOKIN, K.F., doktor tekhn.nauk; GUSEV, N.M., prof., doktor tekhn.nauk; YAKOVLEV, A.I., inzh.; KORENEV, B.G., prof., doktor tekhn.nauk; DERESHKEVICH, Yu.V., inzh.; MOSKVIN, V.M.; LUR'YE, L.L., inzh.; MAKARICHEV, V.V., kand.tekhn.nauk; SHEVCHENKO, V.A., inzh.; VASIL'YEV, B.F., inzh.; KOSTYUKOVSKIY, M.G., kand.tekhn.nauk; MAGARIK, I.L., inzh.; IL'YASHEVSKIY, Ya.A., inzh.; LARIKOV, A.F., inzh.; STULOV, T.T., inzh.; TRUSOV, L.P., inzh.; LYUDKOVSKIY, I.G., kand.tekhn.nauk; POPOV, A.N., kand.tekhn.nauk; VINOGRADOV, N.M., inzh.; USHAKOV, N.A., kand.tekhn.nauk; SVERDLOV, P.M., inzh.; TER-OVANESOV, G.S., inzh.; GLADKOV, B.N., kand.tekhn.nauk; KOSTOCHKINA, G.V., arkh.; KUREK, N.M.; OSTROVSKIY, M.V., kand.tekhn.nauk; PEREL'SHTEYN, Z.M., inzh.; BUKSHTEYN, D.I., inzh.;

(Continued on next card)

MURASHEV, V.A.--(continued) Card 2.

MIKHAYLOV, V.G., kand.tekhn.nauk; SIGALOV, E.Ye., kand.tekhn.nauk; GVOZDEV, A.A., prof., retsenzent; MIKHAYLOV, V.V., prof., retsenzent; PASTERNAK, P.L., prof., retsenzent; SHUBIN, K.A., inzh., retsenzent; TEMKIN, L.Ye., inzh., nauchnyy red.; KOTIK, B.A., red. izd-va; GORYACHEVA, T.V., red.izd-va; MEDVEDEV, L.Ya., tekhn.red.

[Handbook for designers] Spravochnik proektirovshchika. Pod obshchei red. V.I.Murasheva. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materiam. Vol.5. [Precast reinforced concrete construction elements] Sbornye zhelezobetonnye konstruktsii. 1959. 603 p.

(MIRA 12:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut betona i zhelezobetona, Perovo. 2. Deystvitel'-nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Murashev, Gvozdev, Mikhaylov, V.V., Pasternak, Shubin). 3. Chlen-korresp. Akademii stroitel'stva i arkhitektury SSSR (for Mironov, Gusev, Moskvin, Kurek).

(Precast concrete construction).

POPOV, A.N., red.; YUDINA,L.A., red.izd-va; GORDEYEV, P.A., red.izd-va;  
RUDAKOVA, N.I., tekhn.red.

[Quarrying and using natural wall stone in construction] Razrabotka i primenenie prirodного stenovogo kamnia v stroitel'stve. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materiam, 1959. 156 p. (MIRA 13:3)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Popov).  
(Quarries and quarrying) (Building stones)

POPOV, A.N.; SHESTOPAL, N.M., kand. tekhn. nauk

Lowering transportation costs in construction by reducing the  
weight of buildings. From. stroi. 37 no.6:30-33 Je '59.  
(MIRA 12:8)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR  
(for Popov)

(Building materials--Transportation)  
(Industrial buildings)

POPOV, A.N.

ROSTOVTSOV, N.F., akademik, glavnnyy red.toma; SOKOLOV, N.S., prof., red.  
toma; LETUNOV, P.A., kand.geol.-mineral.nauk, red.toma; KUZMICHEV,  
A.V., kand.biolog.nauk, red.toma; KRYLOV, P.A., kand.biolog.nauk,  
red.toma; RUZSKAYA, Ye.A., kand.biolog.nauk, red.toma; CHEMBER,  
B.Ye., kand.biolog.nauk, red.toma; BARDIN, I.P., akademik, glavnnyy  
red. [deceased]; LAVRENT'YEV, M.A., akademik, red.; VOL'FKOVICH,  
S.I., akademik, red.; DIKUSHIN, V.I., akademik, red.; NEMCHINOV,  
V.S., akademik, red.; VEITS, V.I., red.; LEVITSKIY, O.D., red.;  
NEKRASOV, N.N., red.; PUSTOVALOV, L.V., red.; KHACHATUROV, T.S.,  
red.; POPOV, A.N., red.; GRAFOV, L.Ye., red.; GASHEV, A.D., red.;  
VASYUTIN, V.F., prof., red.; PROBST, A.Ye., prof., red.; KROTOV,  
V.A., prof., red.; VASIL'YEV, P.V., doktor ekonom.nauk, red.;  
LIUDOGOVSKIY, G.I., kand.tekhn.nauk, red.; SHKOL'NIKOV, M.G.,  
kand.ekonom.nauk, red.; KLYUSHKIN, P.A., red.izd-va; DOROKHINA,  
I.N., tekhn.red.

(Continued on next card)

ROSTOVTSSEV, N.F.---(continued) Card 2.

[Development of the resources of Eastern Siberia: agriculture]  
Razvitiye proizvoditel'nykh sil Vostochnoi Sibiri: Sel'skoe khoz-  
ziaistvo. Moskva, Izd-vo Akad.nauk SSSR, 1960. 426 p.

(MIRA 13:6)

1. Konferentsiya po razvitiyu proizvoditel'nykh sil Vostochnoy Sibiri. 1958, Irkutsk. 2. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Rostovtsev). 3. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Sokolov). 4. Chleny-korrespondenty AN SSSR (for Veyts, Levitskiy, Nekrasov, Pustovalov, Khachaturov). 5. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Popov). 6. Zamestitel' predsedatelya Gosplana RSFSR (for Grafov). 7. Chlen Gosplana RSFSR (for Gashev).

(Siberia, Eastern--Agriculture)

KARASEV, K.I., kand. khim. nauk; MEDVEDSKAYA, Ye.A., inzh.; MAMUROVSKIY, A.A., otv. red.; POPOV, A.N., red.; VOROB'YEV, V.A., prof., doktor tekhn. nauk, zasl. deyatel' nauki, red.; SHITOVA, L.N., red. izd-va; RYAZANOV, P.Ye., tekhn. red.

[Instructions for using organic and emulsion thinners for oil pigment pastes in construction] Instruktsiia po primeneniiu v stroitel'stve organicheskikh i emul'sionnykh razbavitelei dlia gustotertykh maslianykh krasok. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1960. 8 p. (MIRA 15:1)

1. Akademiya stroitel'stva i arkhitektury SSSR. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov. 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Mamurovskiy). 3. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Popov).  
(Thinner (Paint mixing))

POPOV, A.N., otv.red.toma; BARDIN, I.P., akademik, glavnnyy red. [deceased];  
KLEBANOV, M.Ya., red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Development of productive forces in Eastern Siberia: Construction  
industry and building materials industry] Razvitiye proizvodis-  
tel'nykh sil Vostochnoi Sibiri: Stroitel'naya industriya i pro-  
myshlennost' stroitel'nykh materialov. Moskva, Izd-vo Akad.nauk  
SSSR, 1960. 278 p. (MIRA 13:3)

1. Konferentsiya po razvitiyu proizvoditel'nykh sil Vostochnoy  
Sibiri, Irkutsk. 1958. 2. Deystvitel'nyy chlen Akademii stroi-  
tel'stva i arkhitektury (for Popov).  
(Siberia, Eastern—Construction industry)  
(Siberia, Eastern—Building materials industry)

REKITAR, Ya.A.; POPOV, A.N., red.; IL'IN, V.M., red.; MALYUGIN, V.I., red.; MASLOV, N.A., red.; USPENSKIY, V.V., red.; LEYKIN, B.P., red.; SHASS, M.Ye., red.; MORSKOY, K.L., red.izd-va; GILENSEN, P.G., tekhn.red.

[Economic efficiency of the reorganization of wall-panel plants; conversion of operating plants to the output of modern types of production] Ekonomicheskaiia effektivnost' rekonstruktsii predpriatii stenovykh materialov; perevod deistvuiushchikh zavodov na vypusk progressivnykh vidov izdelii. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 79 p.

(MIRA 14:3)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Popov).

(Walls)

POPOV, A.N.

Modern urban development and requirements concerning building materials. Stroi. mat. 6 no.3:1-3 Mr '60. (MIRA 13:6)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR.

(City planning) (Building materials)

POPOV, Aleksandr Nikolayevich; KRIVTSOV, V.I., red.; KUZ'MIN, V.A., red.; SHILLING, V.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[New building materials in industrial and public construction]  
Novye struc'tel'nye materialy v promyshlennom i grazhdanskem  
stroitel'stve; stenogramma lektsii. Leningrad, Leningr. Dom  
nauchno-tekhn. propagandy, 1961. 8 p. (MIRA 14:7)  
(Building materials)

KHIGEROVICH, Moisey Isayevich, doktor tekhn. nauk. prof.; NIKOLAEV,  
A.N., retsenzent; POPOV, A.N., retsenzent; STRATILATOVA, K.I.,  
red.; NESMYSLOVA, L.M., tekhn. red.

[Plastic building materials and articles] Stroitel'nye materialy  
i izdелия из пластмасс. Moskva, Vses.uchebno-pedagog.izd-vo  
Proftekhizdat, 1961. 119 p. (MIRA 15:1)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkitektury  
SSSR (for Popov).  
(Plastics) (Building materials)

POPOV, A.N., kand.tekhn.nauk

Pressure pipes molded by vibration and hydraulic pressure and  
ways to improve them. Izv.ASlA no.4:26-33 '62. (MIRA 16:1)  
(Pipe, Concrete)

BUDNIKOV, P.P.; ALEKPEROV, M.S.; BAKLANOV, G.M.; BOLDYREV, A.S.;  
BOS'KO, K.D.; VOLZHENSKIY, A.V.; GROKHOTOV, N.V.; ZHUKOV, A.V.;  
ZABAR, L.B.; KITAYEV, Ye.N.; KOSHKIN, V.G.; KRUPIN, A.A.;  
MURQMSKIY, P.G.; POPOV, A.N.; SUKHOTSKIY, S.F.; USPENSKIY, V.V.;  
KHINT, I.A.; SHVAGIREV, M.P.; YUSHKEVICH, M.O.

Conference on increasing the durability of corrugated roofing  
sheets. Stroi.mat. 8 no.1:p.3 of cover Ja '62. (MIRA 15:5)  
(Roofing)

POPOV, A.N., kand.tekhn.nauk; BURDENKOVA, Z.M., kand.tekhn.nauk

Experimental studies of the manufacture and testing of  
centrifugal pressure pipes made of self-stressed reinforced  
concrete. Trudy NIIZHB no.27:171-182 '62. (MIRA 15:9)  
(Pipe, Concrete)

TUPOLEV, M.S., doktor arkh. prof.; POPOV, A.N., prof.; POPOV, A.A.,  
kand. arkh. dots.; SHKINEV, A.N., inzh., dots.; KHRUSTALEV,  
A.A., kand. arkh. dots.; NEYSHTADT, L.I., nauchnyy red.;  
FEDOROVA, T.N., red. izd-va; KOROBKOVA, N.I., tekhn. red.

[Public and industrial buildings] Grazhdanskie i promyshlennye zdanija. Pod obshchei red. M.S. Tupoleva. Moskva, Gosstroizdat. Pt. 2. [Industrial buildings] Promyshlennye zdanija. (MIRA 16:7) 1963. 198 p.

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Popov, A.N.). 2. Prepodavateli Moskovskogo arkhitekturnogo instituta (for Tupolev, Popov, A.N., Popov, A.A., Shkinev, Khrustalev).  
(Industrial buildings)

POFOV, A.N., kand. tekhn. nauk; KOROBOV, Ye.P.; TSIONKOVSKIY, A.L.;  
PERFILOV, I.F., inzh., red.

[Preparing reinforced concrete pressure pipes by the vibration-pressing method; practices of the Kuybyshev Pipe Plant No.7 of the "Zhelezobeton" Trust] Izgotovlenie zhelezobetonnykh napornykh trub metodom vibropressovaniia; opyt Kuibyshevskogo trubnogo zavoda No.7 tresta "Zhelezobeton." Moskva, Gosstroizdat. 1963. 53 p.

(MIRA 17:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva. 2. Rukovoditel' laboratorii zhelezobetonnykh trub Nauchno-issledovatel'skogo instituta betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR. (for Popov). 3. Glavnyy inzhener tresta "Zhelezobeton" (for Korobov). 4. Glavnyy inzhener laboratorii zhelezobetonnykh trub Nauchno-issledovatel'skogo instituta betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR (for TSIONkovskiy).

FILIMONOV, N.M.; SPIVAK, A.I.; POPOV, A.N.

Dynamic interrelation between bit-roller teeth and rock. Izv. vys.  
ucheb. zav.; neft' i gaz 6 no.1:35-40 '63. (MIRA 17:10)

1. Ufimskiy neftyanoy institut.

POPOV, A.N.; SPIVAK, A.I.

Study of the wear of steels and hard alloys in case of friction  
on rocks using a profilograph. Izv. vys. ucheb. zav.; neft' i  
gaz 8 no.1:106-108 '65. (MIRA 18:2)

1. Ufimskiy neftyanoy institut.

1. POPOV, A. N. Eng.
  2. USSR (600)
  4. Heating Plants--Moscow
  7. Construction of district boiler rooms for central heating. Gor.khoz.Mosk. 23 no.9  
1949.
- 
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

POPOV, A. N., Engr

USSR/Metals - Cast Iron, Heat

Apr 52

"Obtaining Heat-Resistant 'Chugal' Cast Iron," A. N. Popov, Engr, Riga Mech Plant

"Litey Proizvod" No 4, p 31

Briefly describes procedure of obtaining "Chugal" by mixing aluminum with gray cast iron in molten states. Compn is given as 75% cast iron and 25% Al by wt. Specimen after holding at 1,000° for 10 days showed no distortion or scaling. Authorship Certificate No 40390 was issued to A. F. Durniyenko.

213T103

1. POPOV, A. N.
2. USSR 600
4. Pistons
7. Using KT binder in casting pistons, Lit. proizv., No. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Unclassified.

FCPOV, A. N.

Founding

Thin-walled, welded, iron mold boxes. Lit. preizv. No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

POROV, A. V.

Founding

Centrifugal casting of ring pots. Lit. pro\_zv. No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

POPOV, A. N.

USSR/Miscellaneous - Foundry processes

Card 1/1 : Pub. 61 - 17/23

Authors : Popov, A. N.

Title : Repair of furnace cupolas with inert materials

Periodical : Lit. proizv. 3, page 29, May-June 1954

Abstract : The use of metallurgical wastes (filings, shavings), in a mixture with pulverized chamotte and other crucibles for spot repair of foundry furnace cupolas, by the Machine Construction Plant at Riga Latv-SSR, is described.

Institution : The Machine Construction Plant, Riga

Submitted : ...

POPOV, A.N.

Using "KT" binder in the manufacture of cast iron kitchenware.  
(MLRA 7:8)  
Lit.proizv. no.5:28 Ag '54.  
(Iron founding)

POPOV, A.N.

Ladle with slag remover. Lit.proizv. no.7:9 0 '54. (MLRA 7:12)  
(Foundries)

BERKOVICH, M.Ya.; SPIVAK, A.I.; KORNONOGOV, A.P.; FILIMONOV, N.M.;  
POPOV, A.N.; VDOVIN, K.I.; ALEKSEYEV, L.A.; POSPELOV, V.P.

Some problems of gas drilling. Izv.vys.ucheb. zav.;neft' i gaz  
5 no.5:29-34 '62. (MIRA 16:5)

1. Ufimskiy neftyanoy institut.  
(Oil well drilling)

S/118/63/000/001/001/002

AUTHOR: Popov, A. N., Engineer and Ponomarenko, A. G., Engineer

TITLE: Overall automation of the roughing stand on a 1200 rolling mill

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 1, 1963, 3-7

TEXT: Before automation all units of the 1200 rolling mill in the Novolipetsk metallurgicheskiy zavod (Novolipetsk Metallurgical Plant) for producing 3-12 mm plate from slabs 3.9 m long, 120-180 mm thick, 600-1030 mm wide, and weighing 1.5 to 4 tons (a two-row continuous furnace for heating slabs with two pushers, a general-purpose reversing 1200 rolling mill with 75-850 mm working rolls, and 60-ton guillotine shears) were controlled by 1 or 2 operators. Now the entire technological process, up to delivery to the finishing stand, is automated. The command circuitry controlling sequence of operations is governed by counting the number of passes, according to the type of slabs used; the beginning and end of rolling is fixed, starting and stopping roll tables is programmed, manipulating lines are switched on and off, descaling is automated, and pushers are switched on when rolling is completed. The basic device ensuring operation of the circuitry is a transducer for sensing the presence of metal in the rolls consisting of a double-coiled static current relay in the main drive circuit. A ФРС-58 (FRS-58) photoelectric relay controls the position of the metal during rolling. The circuitry ensures a general accuracy of  $\pm 0.5$

Card 1 of 2

S/118/63/000/001/001/002

Overall automation of the ....

mm in setting the rolls and  $\pm 0.1$  mm for the last two passes. Detailed descriptions of sequences of operations, circuitry, and control devices were given and 4 figures showed circuitry and vital units. The scheme provides for operator intervention in controlling individual units without disrupting the general program.

Card 2 of 2

L 29775-66 ENT(m)/EWP(t)/ETI IJP(c) JD  
ACC NR: AP6015072 (A) SOURCE CODE: UR/0363/66/002/005/0886/0889

AUTHOR: Mikhaylov, V. A.; Popov, A. N.; Gorbachev, V. M.; Torgova, E. I.

ORG: Institute of Inorganic Chemistry, SO, Academy of Sciences, SSSR (Institut neorganicheskoy khimii SO Akademii nauk SSSR)

TITLE: Oxidation of  $\text{PCl}_3$  microimpurity to  $\text{POCl}_3$  in a methyltrichlorosilane medium

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 5, 1966, 886-889

TOPIC TAGS: phosphorus chloride, silane, chemical oxidation

ABSTRACT: The oxidation of  $\text{PCl}_3$  in methyltrichlorosilane  $\text{CH}_3\text{SiCl}_3$  (MTCS) was studied in connection with the necessity of thoroughly removing phosphorus impurity from MTCS when the latter is used for preparing semiconducting silicon carbide. The possibility of oxidizing microquantities of trivalent phosphorus was checked on  $\text{PCl}_3$  present in amounts of  $1.3-2.6 \times 10^{-4}$  wt % in MTCS, the  $\text{P}^{32}$  radioisotope being used as the label. The oxidation of such small amounts of trivalent phosphorus was found to be inhibited by trace impurities. A fast and complete oxidation of  $\text{PCl}_3$  to  $\text{POCl}_3$  by atmospheric oxygen takes place when  $\text{PCl}_3$  is present in amounts greater than 0.1

UDC: 546.18 + 546.287

Card 1/2

L 29775-66

ACC NR: AP6015072

vol % in purified MTCS. However, the introduction of  $>6 \times 10^{-4}$  wt % FeCl<sub>3</sub> also stops the oxidation of macroquantities of PCl<sub>3</sub>. A complete conversion of macro- and microquantities of PCl<sub>3</sub> into POCl<sub>3</sub> in a medium of technical MTCS or MTCS contaminated with iron compounds is achieved by using ozonized air or air containing 20-30 vol % Cl<sub>2</sub> or NO<sub>2</sub>. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 0710/ SUBM DATE: 06Aug65/ ORIG REF: 005/ OTH REF: 006

Card 2/2 PW

SKUL'SKIY, Yu.V.; MAKAROV, M.D.; POPOV, A.N.; KHOKHLOV, P.L.; SOBOLEV, N.T.

Cast and welded flanged cast-iron pipe. Avton.svar. 18 no.11:57-  
(MIRA 18:12)  
59 N '65.

1. Institut elektrosvarki im. Ye.O.Patona AN UkrSSR (for  
Skul'skiy, Makarov, Popov). 2. Makeyevskiy truboliteynyy  
zavod im. Kuybysheva (for Khokhlov, Sobolev). Submitted  
March 24, 1965.

POPCV, A.N.; MAKAROV, F.A.; KOROLEV, N.Ye., inzh., retsenzent  
[Equipment for the production of concrete and reinforced

concrete pipe] Oborudovanie dlia proizvodstva betonnykh i  
zhelezobetonnykh trub. Moskva, Mashinostroenie, 1965.  
(MIRA 18:8)  
183 p.

BRIK, F.G., inzh.; YEFREMOVA, Ye.M.; LOPOVOK, L.I., kand. arkh.;  
MAKOTINSKIY, M.P., kand. arkh.; MILOVZOROV, A.K., arkh.;  
CHARNYY, S.S., kand. tekhn. nauk; Prinimali uchastiye:  
BOGUSLAVSKIY, A.I., inzh.; LIVSHITS, A.M., inzh.; POPOV,  
A.N., retsenzent; ROKHVARGER, Ye.L., kand. tekhn. nauk;  
retsenzent; GURVICH, E.A., red.

[Catalog of finishing materials and elements] Katalog ot-  
delochnykh materialov i izdelii. Moskva, Gosstroizdat.  
Pt.5. [Ceramics] Keramika. 1961. 54 p. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh  
stroitel'nykh materialov. 2. Deystvitel'nyy chlen Akademii  
stroitel'stva i arkhitektury SSSR (for Popov).  
(Finishes and finishing)

IGOV, I. I.

"Solution of Some Problems of Projection Correspondence in Putting Together Layouts With a Scale of 1:5,000 From Aerial Photographs With Large Coefficients of Magnification." Cand Tech Sci, Moscow Inst of Land Utilization Engineers, Moscow, 1954. (JL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational SO: Sum. No 518, 29 Jul 55

POPOV, A.N.

Larvae of the dragon-flies of the USSR. Moskva, Izd-vo Akademii nauk SSSR,  
1953. 2<sup>3</sup>/<sub>4</sub> p. (Opyredeliteli po faune SSSR, izdavaemye Zoologicheskim  
institutom Akademii nauk SSSR, 50)

1. Dragon-flies.

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POPOV, A.N.

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1. Glavnnyy zootehnik Vinnikovskoy mashinno-traktornoy stantsii,  
Amurskoy oblasti. (Stock and stockbreeding)

POPOV, A.N., glavnnyy zootehnik

Transformation of the animal industry on a regional scale. Zhivotnovodstvo  
21 no.2:89 F '59. (MIRA 12:3)

1. Inspeksiya po sel'skomu khozyaystvu Sal'skogo rayona, Rostovskoy  
oblasti. (Sal'sk District--Animal industry)

POPOV, A. N., MIRUK, B. I. and NADEZHDIN, P. F.

Svetomaskirova gorodskogo transports. [Light discipline (camouflage) of the city transportation system]. (Kommunal noe stroitel stvo, 1941, no. 4, p. 13-17).

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SO: Soviet Transportation and Communications, A Bibliography, Library of Congress  
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POPOV, A. N.

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collective farm. Zhivotnovodstvo 20 no.6:31-32 Je '58. (MIRA 11:6)

1. Glavnnyy zootehnik Sal'skoy mashinno-traktornoy stantsii,  
Rostovskoy oblasti. (Dairying)

ALFEROV, A.A.; ARTEMKIN, A.A.; ASHKENAZI, Ye.A.; VINOGRADOV, G.P.; GALEYEV, A.U.; GRIGOR'YEV, A.N.; D'YACHENKO, P.Ye.; ZALIT, N.N.; ZAKHAROV, P.M.; ZOBININ, S.P.; IVANOV, I.I.; IL'IN, I.P.; EMETIK, P.I.; KUDRYASHOV, A.T.; LAPSHIN, F.A.; MOLYARCHUK, V.S.; PERTSOVSKIY, L.M.; POGODIN, A.M.; RUDOV, M.L.; SAVIN, K.D.; SIMONOV, K.S.; SITKOVSKIY, I.P.; SITHIK, M.D.; TETEREV, B.K.; TSETYRKIN, I.Ye.; TSUKANOV, P.P.; SHADIKYAN, V.S.; SHADIKYAN, V.S.; ADELUNG, N.N., retsenzent; AFANAS'YEV, Ye.V., retsenzent; VIASOV, V.I., retsenzent; VOROB'YEV, I.Ye., retsenzent; VOROZHENOV, N.M., retsenzent; GRITCHANKO, V.A., retsenzent; ZHEREBIN, M.M., retsenzent; IVLIYEV, I.V., retsenzent; KAPORTSEV, N.V., retsenzent; KOCHUROV, P.M., retsenzent; KRIVORUCHKO, N.Z., retsenzent; KUCHKO, A.P., retsenzent; LOBANOV, V.V., retsenzent; MOROZOV, A.S., retsenzent; ORLOV, S.P., retsenzent; PAVLUSHKOV, E.D., retsenzent; PROKOF'YEV, P.F., retsenzent; RAKOV, V.A., retsenzent; SINEGUBOV, N.I., retsenzent; TERENIN, D.F., retsenzent; TIKHO-MIROV, I.G., retsenzent; URBAN, I.V., retsenzent; FLALKOVSKIY, I.A., retsenzent; CHEPYZHES, B.F., retsenzent; SHEBYAKIN, O.S., retsenzent; SHCHERBAKOV, P.D., retsenzent; GARNIK, V.A., redaktor; LOMAGIN, N.A., redaktor; MORDVINKIN, N.A., redaktor; NAUMOV, A.N., redaktor; POBEDIN, V.F., redaktor; RYAZANTSEV, B.S., redaktor; TVERSKOV, K.N., redaktor; CHEREVATYY, N.S., redaktor; ARSHINOV, I.M., redaktor; BABELYAN, V.B., redaktor; BERNGARD, K.A., redaktor; VERSHINSKIY, S.V., redaktor; GAMBURG, Ye.Yu., redaktor; DERIBAS, A.T., redaktor; DOMEROVSKIY, K.I., redaktor; KORNEYEV, A.I., redaktor; MIKHEYEV, A.P., redaktor

(Continued on next card)

ALFEROV, A.A. ---- (continued) Card 2.  
MOSKVIN, G.N., redaktor; RUBINSHTEYN, S.A., redaktor; TSY'IN, G.S.,  
redaktor; CHERNYAVSKIY, V.Ya., redaktor; CHERNYSHEV, V.I., redaktor;  
CHERNYSHEV, M.A., redaktor; SHADUR, L.A., redaktor; SHISKIN, K.A.,  
redaktor

[Railroad handbook] Spravochnaya knizhka zheleznodorozhnika. Izd.  
3-e, ispr. i dop. Pod obshchei red. V.A. Garnyka. Moskva, Gos.  
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1. Nauchno-tehnicheskoye obshchestvo zheleznodorozhnogo transporta.  
(Railroads)

Popov, A.N.

BARDIN, I.P., akademik, glavnnyy red. [deceased]; KHACHATUROV, T.S., otv. red.toma; SMIRNOV, A.P., zem.otv.red.toma; VERKHOVSKIY, I.A., red. toma; NEKRASOVA, R.I., red.toma; TSENIN, S.S., red.toma; LAVRENT'IEV, M.A., red.; VOL'FKOVICH, S.I., red.; DIKUSHIN, V.I., red.; NEMCHINOV, V.S., red.; VETTS, V.I., red.; LEVITSKIY, O.D., red.; NEKRASOV, N.N., red.; PUSTOVALOV, L.V., red.; ROSTOVTSIV, N.F., akademik, red.; POPOV, A.H., red.; GRAFOV, L.Ye., red.; GASHEV, A.D., red.; PROBST, A.Ye., prof., red.; VASYUTIN, V.F., prof., red.; KROTOV, V.A., prof., red.; VASIL'IEV, P.V., doktor ekonom.nauk, red.; LYUDOGOVSKIY, G.I., kand. tekhn.nauk, red.; LETUNOV, P.A., kand.geol.-miner.nauk, red.; SHKOL'-NIKOV, M.G., kand.ekon.nauk, red.; RODINA, Ye.D., red.izd-va; GUSEVA, A.P., tekhn.red.

[Transportation; proceedings of the Conference on the Development of Productive Forces of Eastern Siberia] Transport; trudy Konferentsii po razvitiyu proizvodstvennykh sil Vostochnoi Sibiri. Moskva, Izd-vo Akad.nauk SSSR, 1960. 203 p. (MIRA 13:10) (Continued on next card)

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(Siberia, Eastern--Transportation)

MOGILEVSKIY, Dmitriy Aleksandrovich, dotsent; BABKOV, Valeriy Fedorovich, prof., doktor tekhn.nauk; SMIRNOV, Andrey Sergeyevich, kand.tekhn. nauk; ABRAMOV, Leonid Tikhonovich, kand.tekhn.nauk; ZAYTSEV, Philipp Yakovlevich, kand.tekhn.nauk; ZAMAKHAYEV, Mitrofan Semenovich, kand.tekhn.nauk; NIKITIN, Sergey Mikhaylovich, inzh.; BIRULYA, A.K., prof., retsenzent; DUDKIN, P.A., kand.tekhn.nauk, retsenzent; AVDEYEV, V.N., retsenzent; KARTASHEV, V.A., retsenzent; PAL'CHEV, A.G., retsenzent; POPOV, A.N., retsenzent; PTITSIN, I.G., retsenzent; ROMA-NENKO, I.A., prof., retsenzent; BARATS, L.A., prepodavatel', retsenzent; BASKEVICH, N.I., prepodavatel', retsenzent; BEL'SKIY, A.Ye., prepodavatel', retsenzent; KALUZHSKIY, Ya.A., prepodavatel', retsenzent; CHVANOV, V.G., red.; MAL'KOVA, N.V., tekhn.red.

[Locating and designing airfields] Izyskania i proektirovanie aerodromov. Pod red. V.F.Babkova. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transporta i shosseinykh dorog RSFSR, 1959.  
(MIRA 13:3)  
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Barats, Baskevich, Bel'skiy, Kaluzhskiy).  
(Airports--Planning)

KOVAL'EV, Ya.K.; POPOV, A.N.

Formation of oxbow lakes in bottom lands of the Don Valley. Trudy  
(MIRA 11:6)  
VGU 42 no. 4:39-41 '55.  
(Don Valley--Lakes)

KOPOV, A.N.

Sparrows as grain crop pests in Tajikistan and their  
extermination. Trudy Inst. zool. i paraz. AN Tadzh.  
SSR 22:26-38 '62. (MIRA 15:11)  
(Tajikistan-Sparrows--Extermination)

POPOV, A.N.

Evaporation from the surface of water and the effect of aquatic vegetation and weather conditions on it. Sbor.rab.Kursk.gidromet.  
obser. no.1:84-90 '60. (MIRA 14:8)  
(Evaporation) (Aquatic plants)

Popov, A. N.

YEVSTIGNEYEV, A.S.; POPOV, A.N.

Evaporation from a water surface overgrown with vegetation. Meteor.i  
gidrol. no.4:32-34 Ap '57. (MLRA 10:5)  
(Evaporation)

POPOV, A.N.

Yearly runoff, its variability and the annual distribution in small  
drainage basins. Sbor. rab. Kursk. gidromet. obzerv. no. 2:98-108 '64.  
(MIRA 17:9)

POPOV, A.N.; KONONOV, Yu.S.

Extracting boric acid from a mixture with a magnesium sulfate  
solution by ion exclusion. Izv. Sib. otd. AN SSSR no. 3:61-67  
'61. (MIRA 14:5)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN  
SSSR, Novosibirsk.  
(Boric acid) (Magnesium sulfate) (Ion exchange)

18:3100

7728  
SOV/149-60-1-17/27

AUTHORS: Kamenetskiy, M. V., Kostyukov, A. A., Popov, A. N.  
TITLE: Ternary System of Potassium, Magnesium, and Titanium Chlorides

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Tsvetnaya metalurgiya, 1960, Nr 1, pp 119-122 (USSR)

ABSTRACT: Equilibrium diagrams of the above ternary system were investigated as an area of interest for titanium electro-metallurgy. Previous work on this subject by A. I. Ivanov (DAN SSSR, Vol 86, Nr 3, 539, 1952) and M. V. Kamenetskiy (Tsvetnyye metally, Nr 2, 39, 1958) is cited. The study was based on cooling curve recordings of the system, with composition expressed in molar percentages. Eleven cross sections of the diagram were investigated as shown in Fig. 1. As melts high in  $TiCl_3$  content could be studied insofar as saturated by this component, the position of monovariant line  $e^2E_2$  (see Fig. 1) is determined tentatively. A short description of the cross

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Ternary System of Potassium, Magnesium,  
and Titanium Chlorides

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sections is given as follows: (I) (90% KCl + 10%  $MgCl_2$ )  $TiCl_3$  crosses the crystallization field boundaries of KCl,  $3KCl \cdot TiCl_3$ , and  $TiCl_3$  (7.9 and 28.6%) at 615 and  $590^\circ C$ , respectively. (II) (80% KCl + 20%  $MgCl_2$ )  $TiCl_3$  crosses the same boundaries at  $540^\circ C$  (4.5%  $TiCl_3$ ) and  $560^\circ C$  (23%  $TiCl_3$ ). (III) (75% KCl + 25%  $MgCl_2$ )  $TiCl_3$  crosses the same boundaries at  $490^\circ C$  (3%  $TiCl_3$ ) and  $540^\circ C$  (20%  $TiCl_3$ ). (IV) (67% KCl + 33%  $MgCl_2$ )  $TiCl_3$  crosses boundaries of fields of variable composition phase crystallization A, KCl ·  $MgCl_2$ ,  $3KCl \cdot TiCl_3$  and  $TiCl_3$  at  $430^\circ C$  (1%  $TiCl_3$ );  $477^\circ C$  (6%  $TiCl_3$ ); and  $470^\circ C$  (15%  $TiCl_3$ ). (V) (60% KCl + 40%  $MgCl_2$ )  $TiCl_3$  crosses one field boundary KCl ·  $MgCl_2$  and  $TiCl_3$  at  $388^\circ C$

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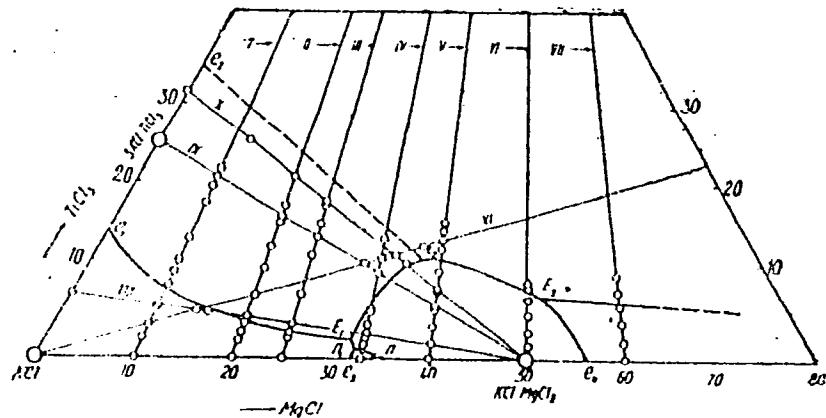


Fig. 1. Concentration triangle of KCl-MgCl<sub>2</sub>-TiCl<sub>3</sub> showing  
cross sections and points of investigated alloys.  
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Ternary System of Potassium, Magnesium,  
and Titanium Chlorides

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(11.5%  $\text{TiCl}_3$ ). (VI) (50% KCl + 50%  $\text{MgCl}_2$ )  $\rightarrow \text{TiCl}_3$   
(8%) crosses the same boundary at  $390^\circ \text{ C}$ . (VII) (40%  
KCl + 60%  $\text{MgCl}_2$ )  $\rightarrow \text{TiCl}_3$  crosses field boundaries  
 $\text{MgCl}_2$  and  $\text{TiCl}_3$  at  $440^\circ \text{ C}$  (6.7%  $\text{TiCl}_3$ ). (VIII) (92.5%  
KCl + 7.5%  $\text{TiCl}_3$ )  $\rightarrow \text{KCl} \cdot \text{MgCl}_2$  crosses the field  
boundaries of KCl, 3KCl  $\cdot$   $\text{TiCl}_3$  and KCl  $\cdot$   $\text{MgCl}_2$  (30.5  
and 62%) at 565 and  $435^\circ \text{ C}$ , respectively. (IX) (3KCl  
 $\cdot$   $\text{TiCl}_3$   $\rightarrow \text{KCl} \cdot \text{MgCl}_2$  (63%) crosses field boundary  
3KCl  $\cdot$   $\text{TiCl}_3$  and KCl  $\cdot$   $\text{MgCl}_2$  at  $480^\circ \text{ C}$ . (X) (69% KCl  
+ 31%  $\text{TiCl}_3$ )  $\rightarrow \text{KCl} \cdot \text{MgCl}_2$  (65%) crosses the same  
boundary at  $416^\circ \text{ C}$ . (XI) KCL  $\rightarrow$  (71%  $\text{MgCl}_2$  + 29%  $\text{TiCl}_3$ )  
crosses field boundaries of KCl, 3KCl  $\cdot$   $\text{TiCl}_3$  at  $568^\circ \text{ C}$   
(60% KCl) and  $420^\circ \text{ C}$  (56% KCl). The above experimental  
data were used for plotting the KCl- $\text{MgCl}_2$ - $\text{TiCl}_3$  ternary  
system diagram as a projection of primary crystallization  
surfaces on the plane of a concentration triangle,

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394/149-Sub-1-17/77

as shown in Fig. 2. The crystallization surface is represented by six crystallization fields (three corresponding to original salts and three to compounds  $\text{BKCl} \cdot \text{TiCl}_3$  and  $\text{KCl} \cdot \text{MgCl}_2$ , as well as variable composition phase A. The fields converge in four nonvariant points: three eutectic and one hypereutectic. Their characteristics are given. In their conclusions the authors indicate that the lowest melting alloys of the ternary system are in the vicinity of eutectic points  $E_2$  and  $E_3$  ( $330^\circ\text{C}$ ). The formation of a stable compound  $\text{BKCl} \cdot \text{TiCl}_3$  which is soluble in molten K, Mg, and Ti chlorides is confirmed. There are 7 figures; 1 table; and 5 references, 3 Soviet, 2 German.

ASSOCIATION: Leningrad Polytechnic Institute. Chair of Electrometallurgy of Non-Ferrous Metals (Leningradskiy politekhnicheskiy institut. Kafedra elektrometallurgii tsvetnykh metallov)

SUBMITTED: May 20, 1959

Card 5/6

POPOV, Aleksandr Nikolayevich, prof.; STOROZHENKO, Vyacheslav  
Petrovich, inzh.; SHMIDT, Leonid Moiseyevich, kand. tekhn.  
nauk; CHERKINSKIY, Iuriy Samoilovich, kand. tekhn.nauk;  
KOZHOKHIN, A.A., otv. za vypusk; NOVOCHADOVA, L.A., red.

[New building materials; facts and figures] Novye  
stroitel'nye materialy; tsifry i fakty. Moskva, Izd-v<sup>o</sup>  
"Znanie," 1963. 44 p. (MIRA 16;11)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhi-  
tektury SSSR (for Popov). 2. Starshiy referent Pravleniya  
Vsesoyuznogo obshchestva "Znanieye" (for Kozhokhin).  
(Building materials)

KOMISSAROV, Vasiliy Pavlovich; POPOV, Andrey Nikolayevich; SITNIN, V.K..  
red.; BUDARINA, V., red.; KOROLEVA, A., mladshiy red.;  
CHEPELEVA, O., tekhn.red.

[Money, credit and finance of the European people's democracies]  
Den'gi, kredit i finansy evropeiskikh stran narodnoi demokratii.  
Pod red. B.K.Sitnina. Moskva, Izd-vo sotsial'no-ekon.lit-ry,  
1960. 237 p. (MIRA 14:1)  
(Europe, Eastern--Finance)

VASIL'YEV, Pavel Grigor'yevich, dotsent, kand.ekonom.nauk; DROBOZINA,  
Lyudmila Aleksandrovna, kand.ekonom.nauk; PAVLOVA, Lidiya  
Petrovna, kand.ekonom.nauk; PADEYSKIY, Nikolay Aleksandrovich,  
dotsent, kand.ekonom.nauk; POPOV, Andrey Nikolayevich, kand.  
ekonom.nauk; SKACHKO, Aleksandr Borisovich, dotsent, kand.ekonom.  
nauk; MOSKVITINA, L.P., red.

[Finance of capitalistic states; textbook] Finansy kapitalisti-  
cheskikh gosudarstv; uchebnoe posobie. Moskva, M-vo vysshego i  
srednego spetsial'nogo obrazovaniia SSSR. Vses.zaochnyi finansovo-  
ekon.in-t, 1959. 434 p. (MIRA 13:7)  
(Finance)

VASIL'YEV, S.S., dots.; GENKINA, L.S., dots.; GRIGOR'YAN, G.S., dots.;  
KISTANOV, Ya.A., dots.; KULIKOV, A.G., dots.; LIFITS, M.M.,  
prof. [deceased]; OBLOVATSKIY, F.Ye., dots.; PIROGOV, P.V., dots.;  
POFOV, A.N., dots.; SHOTRINA, N.A., dots.; FEFILOV, A.I.;  
STARCHAKOVA, I.I., red.; EL'KINA, E.M., tekhn. red.

[Economics of commerce] Ekonomika torgovli. Red. kollegija;  
Vasil'ev, S.S., Grigor'yan, G.S., Fefilov, A.I. Moskva, Gos-  
torgizdat, 1962. 727 p.  
(Commerce)

POPOV, A.N.

KULIZADE, Kyazim Movruz Ali oglu; POPOV, A.N. redaktor; UDALY, A.M.,  
vedushchiy redaktor.

[Increasing the power factor in petroleum enterprises] Povyshenie  
koeffitsienta moshchnosti na neftianykh promyslakh. Baku, Aznefte-  
izdat, 1954. 121 p. [Microfilm] (MLRA 10:5)  
(Azerbaijan--Petroleum industry),  
(Electric power)

POPOV, A.N.

107-57-5-25/63

AUTHOR: None given

TITLE: The International Geophysical Year (Mezhdunarodnyy geofizicheskiy god)

PERIODICAL: Radio, 1957, Nr 5, pp 20-21 (USSR)

ABSTRACT: From July 1957 up to December 1958 over 5,000 scientists of 55 countries will study the surface and the internal layers of the Earth, oceans and their depths, the atmosphere and the outer space. Influence of the Sun and the Moon on the nature of our planet and their positions in space will also be studied. Answers are expected to the questions of whether the Earth's climate is getting warmer, whether ice melting in Arctic areas would cause flooding of maritime populated regions, etc. Many investigations have become possible only because of recent developments in radio and electronics. Radar will widely be used in meteorology, in hydrology, in astronomy, in geodesy, and in other scientific applications. A number of unique instruments built by Soviet scientists and engineers like a panoramic ionospheric station, a statistical noise analyzer, an electron-beam lightning direction finder, solar magnetic-field meters, Earth's magnetic-field meters, etc. will be used in the coming investigations. Phenomena associated with the ionosphere, northern lights, magnetic storms, and the Earth magnetic field are briefly discussed.

A.N. Popov, Deputy Director of the Nauchno-issledovatel'skiy institut zemnogo magnetizma i rasprostraneniya radiovoln (Scientific and Research Institute of

Card 1/2

*Popov, A.N.*  
BEN'KOVA, Natal'ya Pavlovna; POPOV, A.N., otvetsstvennyy red.; VORONOVA, A.I.,  
red.; SHEREV, G.I., tekhn.red.

[The International Geophysical Year and studies of the upper layers  
of the atmosphere] Mezhdunarodnyi geofizicheskii god i issledovaniia  
verkhnikh sloev atmosfery. Moskva, Gos. izd-vo lit-ry po voprosam  
sviazi i radio, 1958. 47 p.  
(Atmosphere, Upper)

SOV/6-59-2-13/22

3(2)

AUTHOR:

Popov, A. N., Candidate of Technical Sciences

TITLE:

Use of the Relief Picture on Existing Plans for Combined Air Photography (Ispol'zovaniye pri kombinirovannoy aeros"yemke izobrazheniya rel'yefa na imeyushchikhsya planakh)

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 2, pp 60-61 (USSR)

ABSTRACT:

The kafedra aerofotogeodezii Khar'kovskogo sel'skokhozyaystvennogo instituta (Chair of Aerophotogeodesy at the Khar'kov Institute of Agriculture) devised a new method whereby relief pictures on obsolete plans can be used for combined air photography and suggests this method of production to be introduced. After the air photographs have been fixed in individual points of the field, after the topographical evaluation and a partial preparation of heights a graphical phototriangulation is carried out on the plan and air photographs by insecting two or three common outline points on each route. After the reduction and adjustment of the nets of adjacent routes the nets are transferred to the plan. Here each route is oriented by causing the common outline points to coincide. Afterwards all landmarks are transferred to the plan. The horizontal lines and 4 landmarks of the

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Use of the Relief Picture on Existing Plans for Combined Air Photography

phototriangulation are copied with Indian ink from the plan on the waxpapers or, strictly speaking, cellophane sheets which were prepared for each individual air photograph. After rectifying of the air-photograph negative on the rectifier screen (illuminated with a yellow light filter) one sheet of dull photopaper is put on it on which the wax or cellophane sheet with the horizontal lines is put while it is oriented according to the 4 points of light of the photograph. After exposure and finishing of the copy the rectified air photograph with the horizontal lines is obtained. The relief picture is checked and rendered more precise by means of the stereoscope. The photographic plan is then mounted to which the data of field evaluation are transferred. Finally, the horizontal lines are entered into the plan. At equal scales of the old and new photographic plan the accuracy of cartographical material thus obtained complies with the technical requirements of specifications of the GUGK.

Card 2/2

BERKOVICH, M.Ya.; SPIVAK, A.I.; KORNONOGOV, A.P.; VDOVIN, K.I.; ALEKSEYEV,  
L.A.; POPOV, A.N.; FILIMONOV, N.M.; POSPELOV, V.P.

Studying the power requirements for breaking rocks by rolling  
cutter bits. Izv.vys.ucheb.zav.; neft' i gaz 5 no.8:43-49 '62.  
(MIRA 17:3)

1. Ufimskiy neftyanoy institut.

POPOV Andrey Nikolayevich  
POPOV, A. N.

Electronics

DECEASED

1962

1964

FCPCV, A. P.

USER/Engin

Metallurgy

Steel - Production

Dec 1947

"Chusovsk Metallurgical Works on Eve of Thirtieth Anniversary of the Great October Revolution," A. P. Popov, S. I. Sepiro, Engineers, Chusovsk Works, 3 pp

"Stal" No 12

PA 57T28 Briefly discusses various parts of Chusovsk Metallurgical Works. Gives special attention to advances made since the Revolution. It is one of the largest metallurgical plants of the Ural region, and particularly important for its vanadium steel. No production figures are given, but development of this plant is

57T28  
USER/Engin (Contd) Dec 1947

given in percentage figures based on its prerevolutionary production.

57T28

POPOV, A.P.

AFONIN, K.B.; BURTSEV, K.I.; BYSTROV, S.N.; VINETS, G.B.; VODNEV, G.G.; VORONIN, A.S.; GEVLICH, A.S.; GRYAZNOV, N.S.; GUDIM, A.F.; GUSYATINSKIY, M.A.; DVORIN, S.S.; DIDEJKO, V.Ye.; DMITRIYEV, M.M.; DODDE, M.M.; DOROGOBID, G.M.; ZHDANOV, G.I.; ZAGORUL'KO, A.I.; ZEMSKII, A.G.; IVASHCHENKO, Ya.N.; KAFTAN, S.I.; KVASHA, A.S.; KIREYEV, D.; KLISHEVSKIY, G.S.; KOZYREV, V.P.; KOLOBOV, V.N.; IGALOV, K.I.; LEYTER, V.A.; LERNER, B.Z.; LOBODA, N.S.; LUBINETS, I.A.; MANDRYKIN, I.I.; MUSTAFIN, F.A.; NEVIROVSKIY, N.Kh.; NEFEDOV, V.A.; OBUKHOVSKIY, Ya.N.; PARTSEV, M.A.; PETROV, I.D.; PODGORZHANSKIY, M.O.; POPOV, A.P.; RAK, A.I.; REVYAKIN, A.A.; ROZHKOV, A.P.; ROZENGAUZ, D.A.; SAZONOV, S.A.; SIGALOV, M.B.; STOMAKHIN, Ya.B.; TARASOV, S.A.; FILIPPov, B.S.; FRIDMAN, N.K.; PRISHBERG, V.D.; KHAR'KOVSKIY, K.V.; KHOLOPTSEV, V.P.; TSAREV, M.N.; TSOGLIN, M.E.; CHERNYY, I.I.; CHERTOV, V.T.; SHIELKOV, A.K.

(MIRA 9:10)

Samuil Berisovich Bamme. Koks i khim.no.6:64 '56.  
(Bamme, Samuil Berisovich, 1910-1956)

SCV/13C-50-7-6/35

AUTHOR: Popov, A.P.

TITLE: Kazakhstan Magnitka (Kazakhstanskaya magnitka)

PERIODICAL: Metallurg, 1958, nr 7, pp 13 - 16 (USSR).

ABSTRACT: Because of its great importance, the Karaganda Metallurgical Combine, now under construction in central Kazakhstan, has been compared with Magnitogorsk and is thus popularly known as "Kazakhstanskaya Magnitka". In this article, the director of the combine outlines plans for its development, which, in the next 20 years, should result in annual pig iron and steel productions of 20 and 25 million tons, respectively. He concentrates on the period up to 1964. By then, several coke-oven batteries and blast furnaces, two sinter strands of 200 m<sup>2</sup> area each, as well as other strands, several steel-melting shops equipped with the largest open-hearth furnaces and converters in the USSR will be operating. Ingots weights will be 15.8 and 23 tons. The combine will produce hot and cold-rolled strip, 0.15-10 mm thick and 700 - 1 500 mm wide, including a considerable quantity of tin plate and sheet iron. The blast furnaces will operate at 1 200 °C blast temperature and 1.5 atm. top pressure, producing annually 11 000 tons of

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Kazakhstan Magnitka

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of iron per blast-furnace department worker, the corresponding figure for the automated and oxygen-supplied open-hearth furnaces will be 4,280. Ingots and slabs will be automatically weighed. Slabs will be reheated in four continuous furnaces and rolled on a 1,700 continuous strip mill into strip 1.2-10 mm thick and coiled, strip of various thicknesses being cut on automatic installations from the coils. Sheets will be tested for thickness and surface defects in the cutting line. The cold-rolling mill will have two continuous mills: 1,200 (for 0.15-0.5 mm thick and up to 1,000 mm wide strip) and 1,700 (for 0.4-2.0 mm thick and 700-1,500 mm wide). Coils will be uncoiled for treatment and re-coiled. Tinplate will be made mainly electrolytically. A wide variety of finishes will be used for cold-rolled sheets and a high degree of process and quality control automation will be adopted. The combine will also produce cold-formed sections and the author outlines the advantages of this type of shaping process. He mentions that the power station will start operating in 1958, Nr 1 blast furnace and 2 coke-oven batteries in 1959 and a further blast furnace and battery as well as a sinter plant, coal-washery, open-hearth furnaces and

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slabbing mill in 1960. He names the following plants as being among those supplying equipment; Novo-Kramatorskiy, Uralmashzavod and the LMZ (Leningrad Metal Works) imeni Lenina. The price of steel at the combine should be the next lowest after Magnitogorsk. The author describes housing and cultural amenities being provided and mentions the help being given in construction by Komsomol groups. There are 4 figures.

ASSOCIATION: Karagandinskiy metallurgicheskiy zavod  
(Karaganda Metallurgical Works)

Card 3/3

1. Iron--Production
2. Steel--Production
3. Steel--Processing
4. Industrial plants--USSR

POPOV, A.P., inzh.

Conference of metal-cutting tool engineers of Western Siberia. Vest.  
mash. 41 no.3:80 Mr '61. (MIRA 14:3)  
(Siberia, Western—Metal-cutting tools)

POPOV, V.P., kand.tekhn.nauk; POPOV, A.P., inzhener-konstruktor

Analytical principles for the selection of materials,  
calculation of reliability and durability of machinery.  
Mashinostroitel' no.9:47 S '62. (MIRA 15:9)

1. Ural'skiy zavod tyazhelogo mashinostroyeniya imeni  
Sergo Ordzhonikidze (for A. Popov).  
(Machinery---Design)

LAVRENT'YEV, M.L.; PODOV, A.P.; FOMIN, V.B.; UKASHIN, N.F.; YEFREMENKO, O.K.

Highly efficient method of iron desulfurization outside a blast furnace. Met. i gornorud. prom. nauchnoe izdatelstvo '64.

(MIRA 18:7)

LAVRENT'YEV, M.I.; FOMIN, V.B.; POPOV, A.P.; SINITSKIY, V.D.; YEFREMENKO,  
O.K.; LUKASHIN, N.Z.

Desulfurizing cast iron with lime in special equipment. Rabr.  
trud. UNIIM no. 3280-89 '65.  
(MURA 28:11)

ACCESSION NR: AP4045015

S/0145/64/000/007/0045/0049

AUTHOR: Popov, A.P. (Candidate of technical sciences)

TITLE: Determination of the opening and closing times of electrothermal transducer contacts

SOURCE: IVUZ. Mashinostroyeniye, no. 7, 1964, 45-49

TOPIC TAGS: automatic control system, automation, electrothermal transducer, transducer contact, contact opening time, contact closing time, temperature measurement, thermometer, thermostat

ABSTRACT: In order to control the coolant temperature in internal combustion engines, electrothermal temperature gauges are employed consisting of a sensor and an indicator (see Fig. 1 of the Enclosure). In the sensor, a bimetallic plate is heated either by the medium or by an electric coil wound around the plate, so that at a certain temperature the plate opens a contact and interrupts the current in the coil, but closes the circuit again after cooling. As a result, a pulsating electric current passes through an indicator showing the mean current intensity. At a sufficiently high temperature, the current is completely interrupted and the sensor becomes inactive. At temperatures on the order of 40°C, the bimetallic plate is heated principally by the effective current of the electric

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ACCESSION NR: AP4045015

calculated as

$$T_o = \frac{mc}{sa} \ln \frac{q}{[(\theta_0 + \Delta\theta) - \frac{q}{sa}]} = 11.6 \text{ seconds} \quad (3)$$

where  $\theta_0 + \Delta\theta = 105 + 0.1$  is the temperature at the instant of opening of the contacts;  $a = 0.0004$  is the heat transmission coefficient; and  $q = 600$  is the power. The closing time was similarly calculated to be 8.4 sec. The opening time is thus 27.6 % greater than the closing time, regardless of the number of bimetallic plate oscillations. This problem is of significance not only for electrothermal devices, but also for contacts controlling the displacement of a working table or tool. Orig. art. has: 4 figures and 9 formulas.

ASSOCIATION: Moskovskiy avtomekhanicheskiy institut (Moscow Automechanics Institute)

SUBMITTED: 09Mar61

NO REF SOV: 000

ENCL: 01

SUB CODE: EC, IE

OTHER: 000

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ACCESSION NR: AP4045015

REF ID: A6520

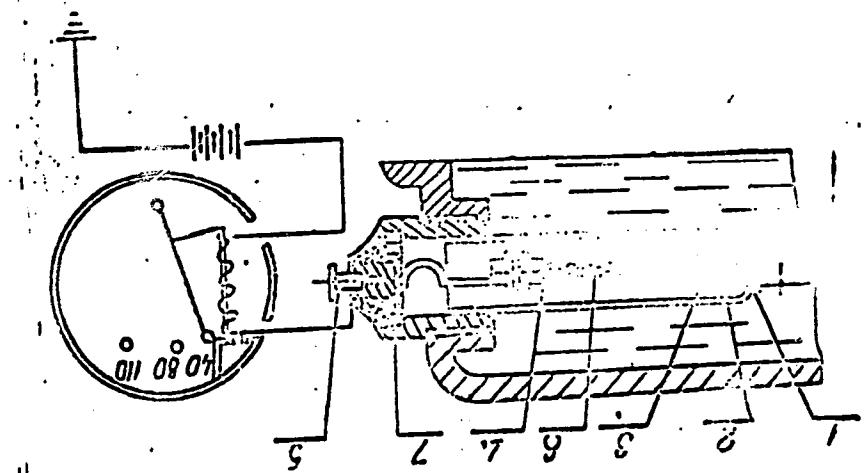


Fig. 1. Schematic arrangement of an impulse type electrothermal temperature gauge:  
1 - housing of sensor, 2 - contact connected to bimetallic plate, 3 - stationary  
contact connected to housing, 4 - bimetallic plate, 5 - terminal set-screw,  
6 - insulated coil connected to contact (2) and to terminal (7), 7 - terminal.

Card 4/4

POPOV, A.P.

POPOV, A.P.,--"Investigation of Certain Factors which Influence the Regulation of Thermoelectric Transmitting Elements of Automobile Engines." \*(Dissertations For Degrees In Science And Engineering At USSR, Higher Educational Institutions). (34). Min Higher Education USSR, Moscow Order of Labor Red Banner Technical School imeni Bauman, Moscow, 1955

SO: Knizhnaya Letopis', No. 34, 20 August 1955

\* For the Degree of Doctor of Technical Sciences

POPOV, A.P., kand.tehn.nauk

Determining the switching time of contacts of an electrothermic  
transducer. Izv.vys.ucheb.zav.; mashinostr. no.7145-49 164.

(MIRA 17:10)

1. Moskovskiy avtomekhanicheskiy institut.

PERSHAKOV, B.N.; POPOV, A.P.

Instrument for measuring junction triodes. Poluprov.prib. i ikh  
prim. no.3:104-109 '58. (MIRA 12:4)  
(Transistors--Measurements)

POPOV, A.P.; SILANT'YEV, F.Ya.

Packings. Spirt. prom. 24 no.8:34-35 '58.  
(Packing (Mechanical engineering))

(MIRA 11:12)

POPOV, A.P.

Effect of automobile-engine vibrations on the maladjustment of  
electric thermometer transmitters. Nauch. dokl. vys. shkoly;  
mash. i prib. no.2:261-271 '59. (MIRA 12:12)  
(Automobiles--Electric equipment)

POPOV, A.P.

Device for checking the operation and adjustment of electro-  
thermal transmitters. Izv.vys.ucheb.zav.; mashinostr. no.6:  
185-190 '59. (MIR 13:5)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni N.E.  
Baumana. (Thermostat--Testing)

MIRONOV, K. Ya.; POPOV, A.P.; RUCHKIN, Ye.D.; BATSAKOV, S.S.

Nitrates of the cerium group of rare-earth metals. Report No. 15  
Optical properties of nitrates hexa- and tetrahydrates. Izv. SO  
AN SSSR no.7 Ser. khim. nauk no.248-57 '64 (MIRA 18:1)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR,  
Novosibirsk.

Popov, A P.

AID P - 4644

Subject : USSR/Aeronautics - physiology of flight  
Card 1/1 Pub. 135 - 10/26  
Author : Popov, A. P., Maj.Gen. of med. service  
Title : On spatial orientation  
Periodical : Vest. vozd. flota, 5, 49-52, My 1956  
Abstract : The problems of spatial orientation and the physiology of flight in respect to instrument flying are discussed by the author. The article is of no particular interest.  
Institution : None  
Submitted : No date

POPOV, A.P., general-major meditsinskoy sluzhby

Remarks on the article by D.E.Rozenblum on "Main problems in acceleration physiology" and by G.L.Komendantov on "Controversial problems in the field of acceleration physiology." Voen.-med. zhur. no.6:85-91 Je '56.  
(AVIATION MEDICINE) (NERVOUS SYSTEM)

LAVNIKOV, Aleksandr Akimovich; POPOV, A.P., general-mayor med. sluzhby v otstavke,  
red.; MIRNYY, A.S., polkovnik, red.; KRASAVINA, A.M., tekhn.  
red.

[Aviation medicine] Aviatsionnaia meditsina. Moskva, Voen. izd-vo  
M-va obor. SSSR, 1961. 274 p.  
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SERGEYEV, Aleksandr Aleksandrovich; POPOV, A.P., otv. red.; VAKHTIN,  
Yu.B., red.izd-va; BOCHEVER, V.T., tekhn. red.

[Essays on the history of aviation medicine]Ocherki po istorii  
aviatsionnoi meditsiny. Otvet. red. A.P.Popov. Moskva, Izd-  
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(AVIATION MEDICINE)

GORYAYEV, M.I.; PUGACHEV, M.G.; TRST'YAKOV, L.I.; POPOV, A.P.; KORNILOVA,  
G.P.; IBRAYEV, G.Zh.; TUREBEKOV, Sh.S.; SAKMAN, N.E.

Preparation of fodder yeasts from molasses waste of the Dzhambul  
Alcohol and Vodka Combine. Izv. AN Kazakh. SSR. Ser. khim. nauk 15  
no.2:77-82 Ap-Je '65.  
(MIRA 18:9)

ANDREYEV, L.I.; MUSTAFABEYLI, M.A.; POPOV, A.P.; KHESIN, B.E.;  
SHAKHNAZARYAN, A.L.

New data on the structure of pebble formations in the Samur-  
Kusarchay interfluve. Sov.geol. 6 no.12:123-129 D '63.

1. Azerbaydzhanskoye geologicheskoye upravleniye. (MIRA 16:12)

POPOV ,A.P.

~~Upprecedented hail in the Stalingrad Province. Priroda 44  
no.5:112-113 My '55.~~ (MLRA 8:7)

1. Slashchevskaya sredyaya shkola Podtelkovskogo rayona,  
Stalingradskoy oblasti  
(Stalingrad Province--Hail)

1. FEGELEVAN, B. S., Eng.; POPOV, A. P., Eng.
2. USSR (600)
4. Steam Boilers
7. Dust muffle using Moscow basin coal, Rab. energ., 3, No. 4, 1953.
  
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

PPD/PS, D.P.

FRENKEL', I.M., kand. tekhn. nauk; MIRONOV, S.A., doktor tekhn. nauk, prof.; BARANOV, A.T., kand. tekhn. nauk; SUZEEVICH, G.A., kand. tekhn. nauk; MIKHAYLOV, K.V., kand. tekhn. nauk; MULIN, N.M., kand. tekhn. nauk; KHAYEUKOV, G.K., kand. tekhn. nauk; KORNEV, N.A., kand. tekhn. nauk; TESLER, P.A., kand. tekhn. nauk; BYRDICHEVSKIY, G.I., kand. tekhn. nauk; VASIL'YEV, A.P., kand. tekhn. nauk; LYUDKOVSKIY, I.G., kand. tekhn. nauk; SVETOV, A.A., kand. tekhn. nauk; CHINENKOV, Yu.V., kand. tekhn. nauk; BELOBROVYY, J.K., inzh.; KLEVTSOV, V.A., inzh.; DOBROMYSLOV, N.S., arkh.; DESOV, A.Ye., doktor tekhn. nauk, prof.; LITVER, S.L., kand. tekhn. nauk; PISHCHIK, M.A., inzh.; SKLYAR, B.L., inzh.; POPOV, A.P., kand. tekhn. nauk; NEKRASOV, K.D., doktor tekhn. nauk, prof.; MILOVANOV, A.F., kand. tekhn. nauk; TAL', K.E., kand. tekhn. nauk; KALATUROV, B.A., kand. tekhn. nauk; KARTASHOV, K.N., red.; MAKARICHEV, V.V., kand. tekhn. nauk, red.; YAKUSHEV, A.A., inzh., nauchnyy red.; BEGA, B.A., red. izd-va; NAJMOVA, G.D., tekhn. red.

[Reinforced concrete products; present state and prospects for development] Zholezobetonnye konstruktsii; sostoyanie i perspektivy razvitiia. Pod obshchei red. K.N.Kartashova i V.V.Makaricheva. Moskva, Gosstroizdat, 1962. 279 p.

(MIRA 15:8)

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